

FIG.1

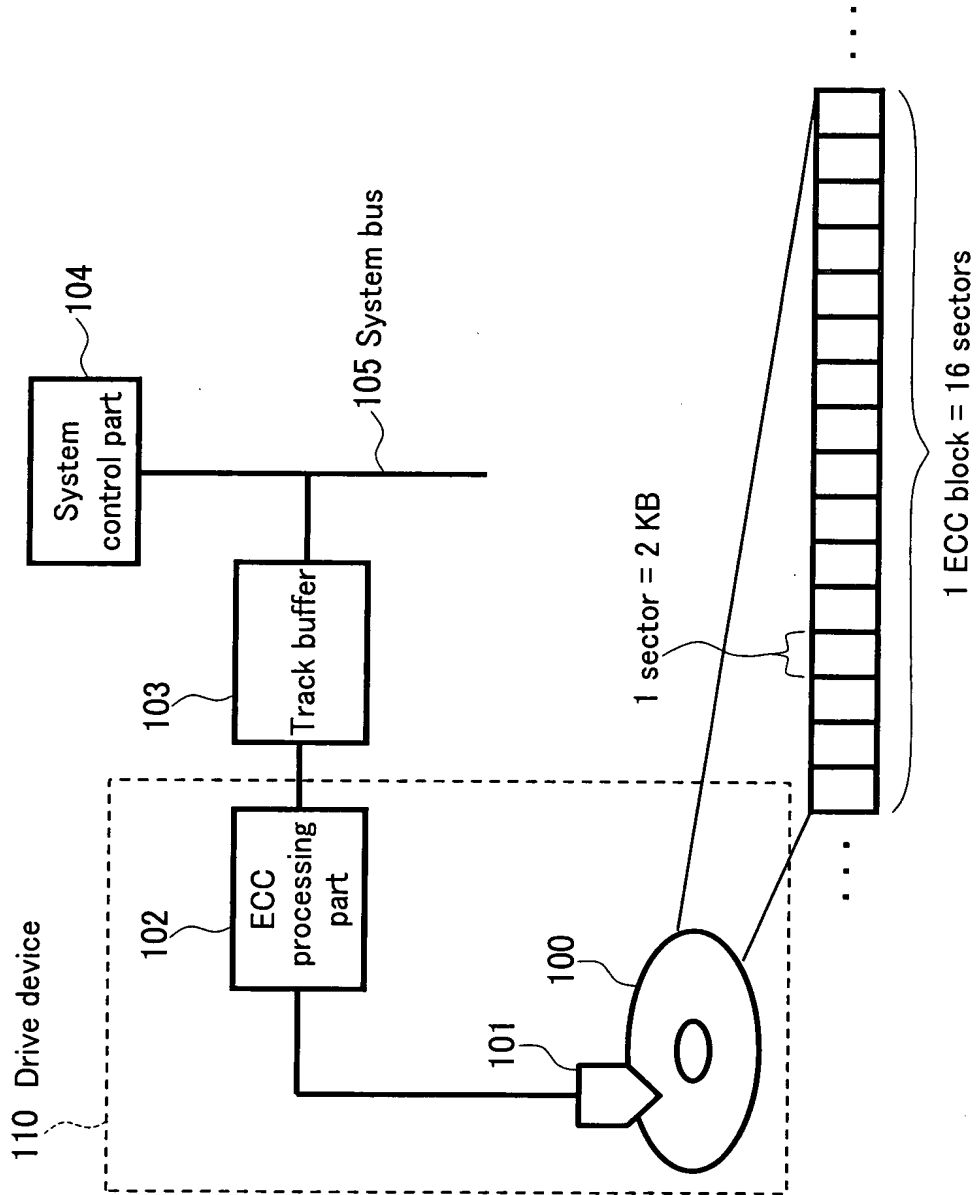


FIG.2

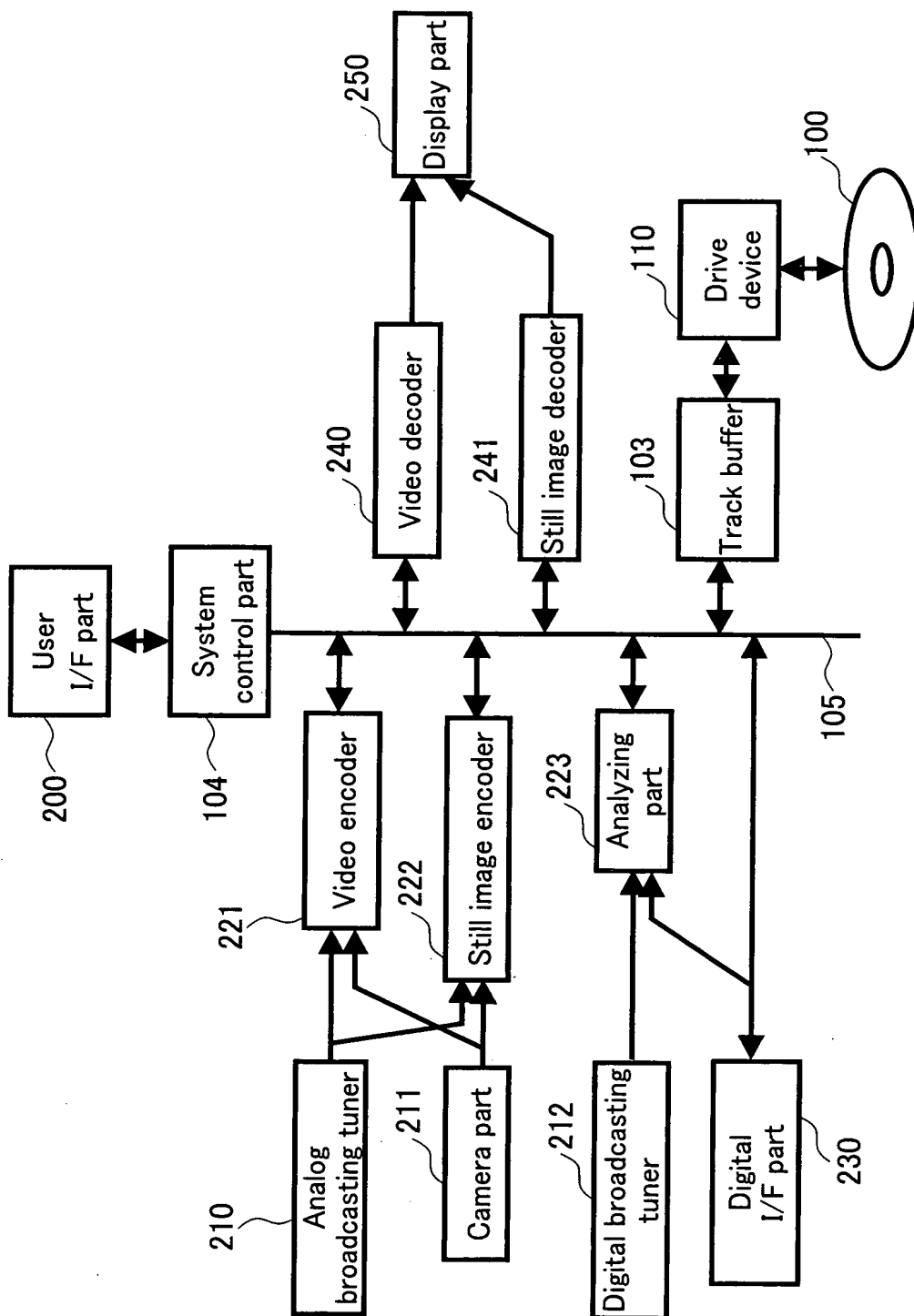


FIG.3

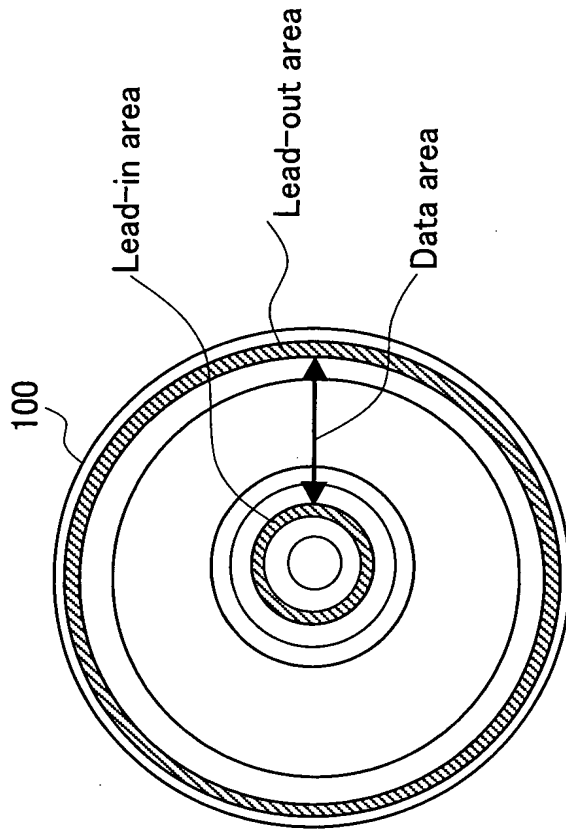


FIG. 4A

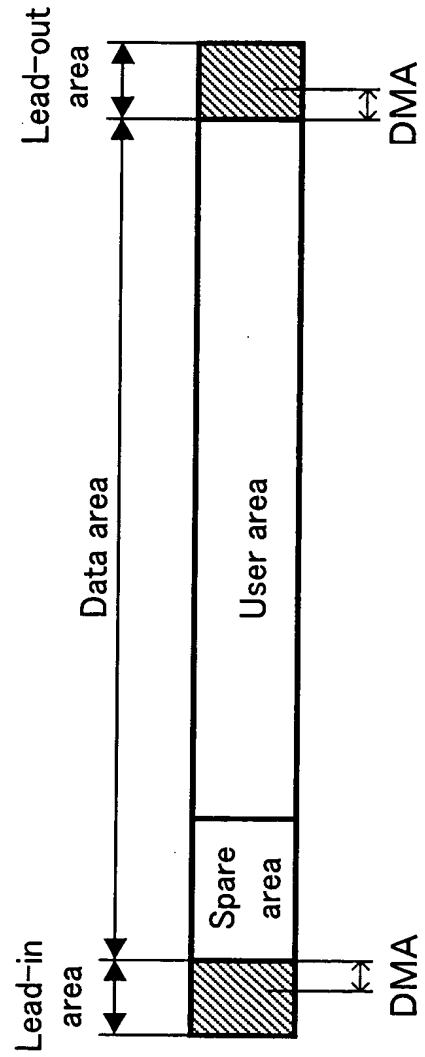


FIG. 4B

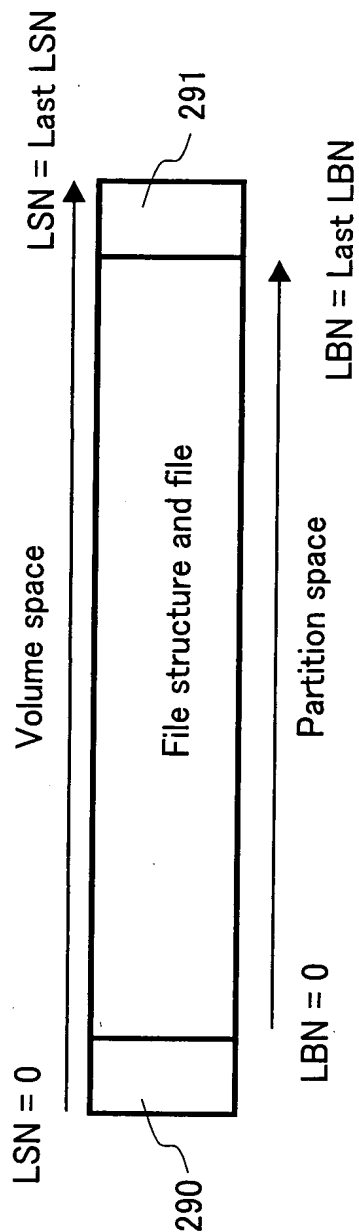


FIG.5

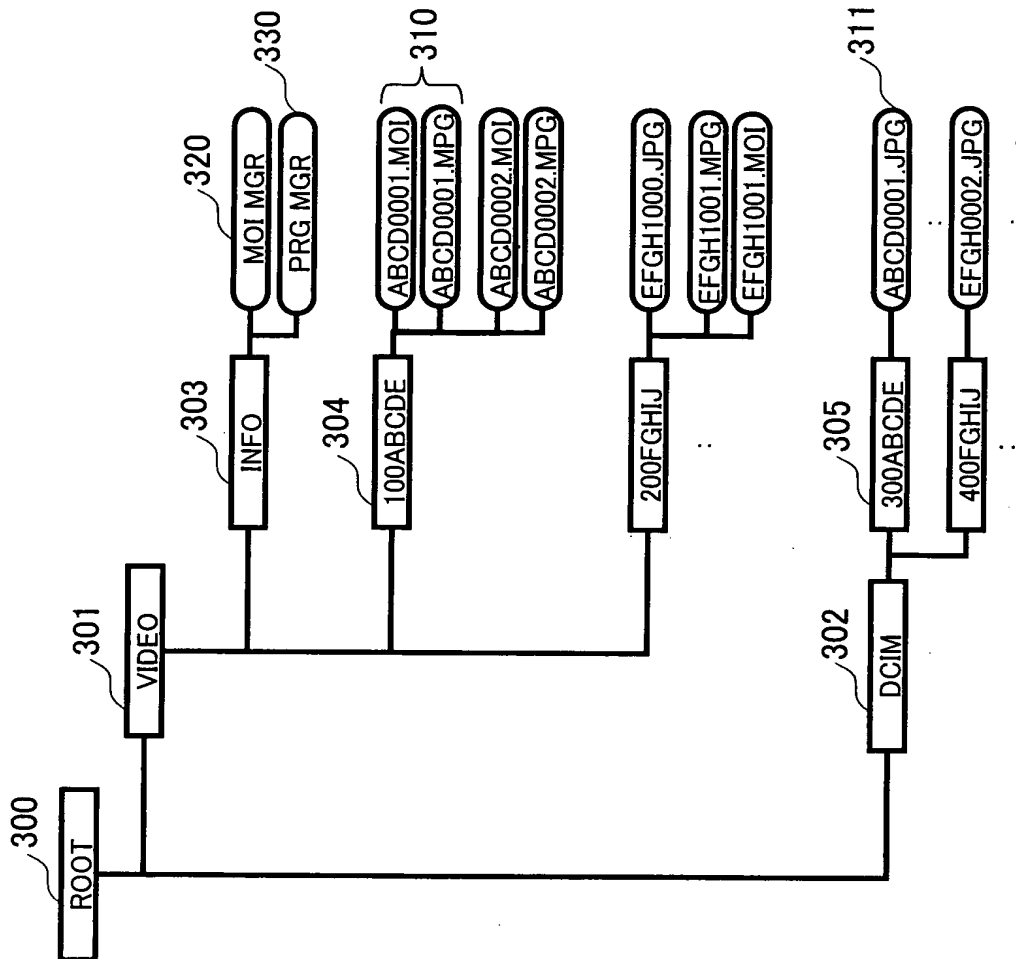


FIG.6

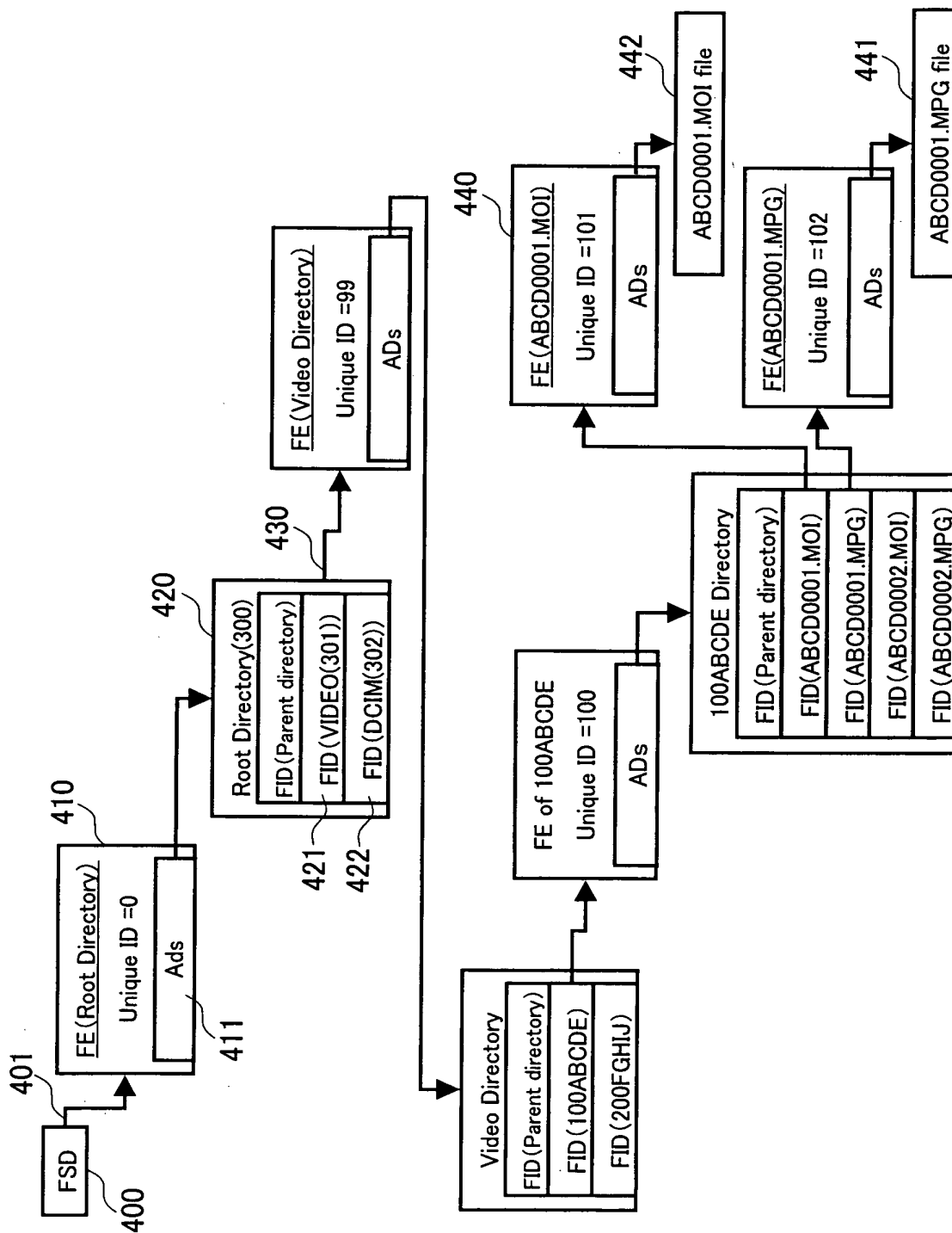


FIG. 7

500

| BP | Length | Field name | Contents |
|-----|--------|-------------------------------------------|----------|
| 0 | 16 | Descriptor Tag | Tag |
| ... | ... | ... | ... |
| 160 | 8 | Unique ID | UInt64 |
| 168 | 4 | Length of Extended Attribute (= L_EA) | UInt32 |
| 172 | 4 | Length of Allocation Descriptors (= L_AD) | UInt32 |
| 176 | L_EA | Extended Attributes (EAs) | Bytes |
| a | L_AD | Allocation Descriptors (ADs) | bytes |

501

502

503

FIG.8A

510

| BP | Length | Field name | Contents |
|-----|--------|------------------------------------|-------------|
| 0 | 16 | Descriptor Tag | Tag |
| ... | ... | ... | ... |
| 19 | 1 | Length of File Identifier (= L_FI) | UInt8 |
| 20 | 16 | ICB | long_ad |
| ... | ... | ... | ... |
| a | L_FI | File Identifier | d-character |
| b | c | Padding | bytes |

511

FIG.8B

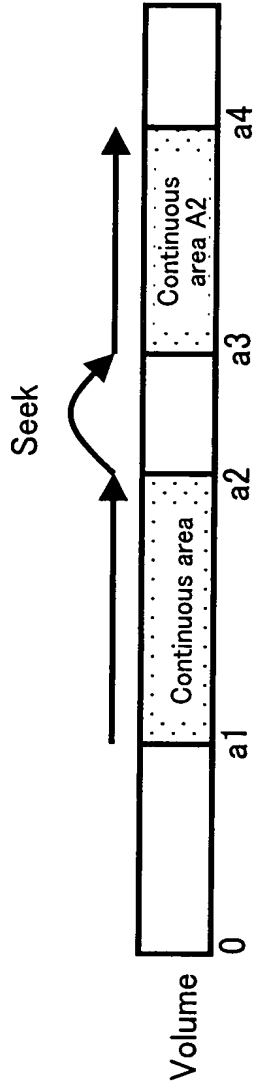


FIG.9A

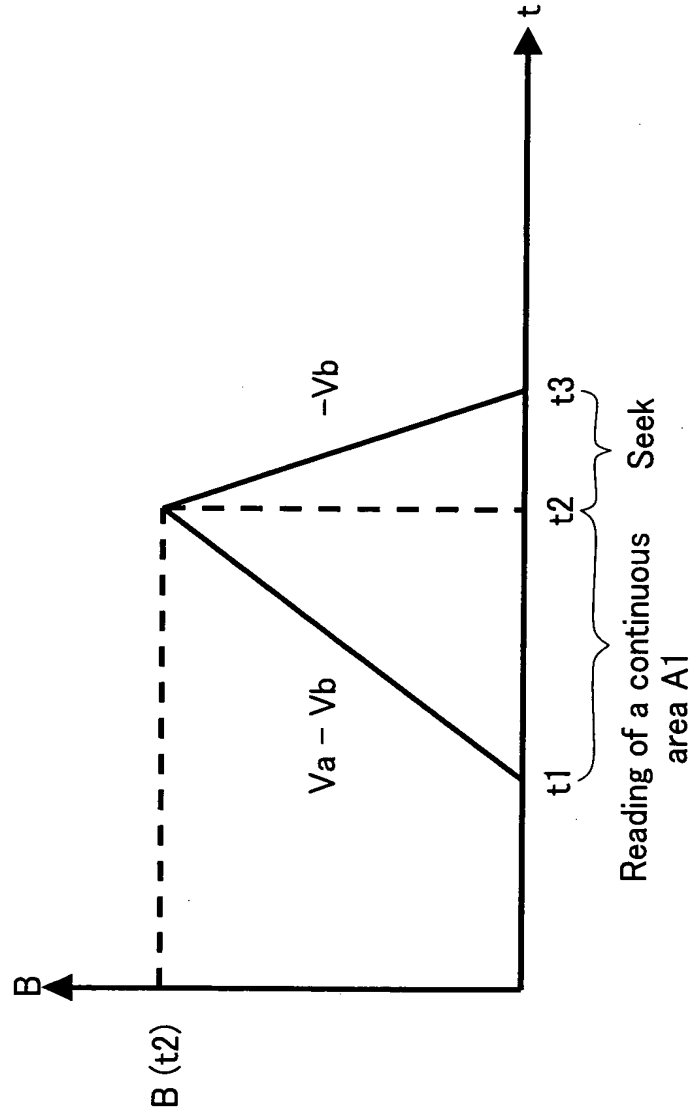


FIG.9B

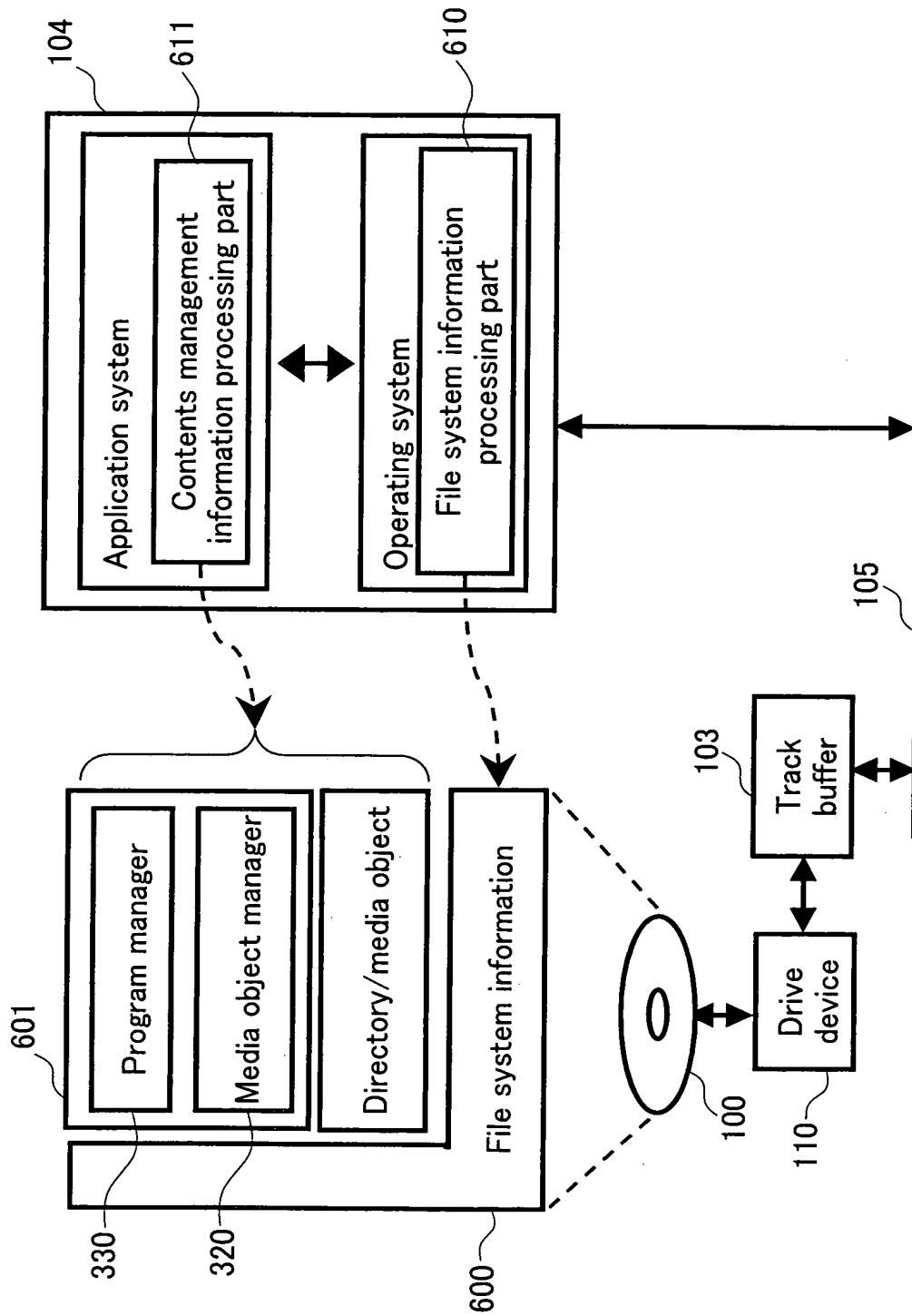


FIG.10

320

| Field name | Contents |
|------------------------------------------------------------------|---------------------------------------------------|
| const unsigned int(16) DataType | Type of MO_MGR (Fixed value) |
| unsigned int(16) DataSize | Size of MO_MGR |
| unsigned int(32) PlayBackDuration | Total reproduction time of all media objects (ms) |
| unsigned int(16) NumMoInfo | Number of object management information (MO_INFO) |
| int i; for (i=0; i < NumMoInfo; i++) { MO_INFO MoInfo } | Table of object management information |

700

FIG.11

| Field name | Contents |
|-----------------------------------|---------------------------------------------------------------------|
| unsigned int(16) MoType | Type of a media object |
| unsigned int(16) Attributes | Attribute information of a media object |
| OBJ_ID MoRef | Object reference information |
| unsigned int(64) FsUniqueID | Unique ID assigned by a file system |
| unsigned int(32) PlayBackDuration | Reproduction time of a media object (ms) |
| unsigned int(16) TextID | Reference information to text information |
| unsigned int(16) ThumbID | Reference information to representative thumbnail image information |

FIG.12

FIG.13A

Value of MoType

| Value | Interpretation |
|-------|-------------------------------------|
| 1 | Directory |
| 2 | Video object (Extension: MOI) |
| 3 | Still image object (Extension: JPG) |
| ... | ... |

FIG.13B

Value of OBJ_ID

| Field name | Interpretation |
|--------------------------------|---------------------------------------------------------------------|
| Unsigned int(8) Parent Dir No. | 0: /VIDEO Directory 1: /DCIM Directory Others: Reservation |
| Unsigned int(16) Dir No. | Numerical portion in a name of a parent directory of a media object |
| Unsigned int(16) File No. | Numerical portion in a name of a file of a media object |

330

| Field name | Contents |
|----------------------------------------------------------------------|------------------------------------------|
| const unsigned int(16) DataType | Type of MO_MGR (Fixed value) |
| unsigned int(16) DataSize | Size of MO_MGR |
| unsigned int(32) PlayBackDuration | Reproduction time of all programs (ms) |
| unsigned int(16) NumPrgInfo | Number of program information (PRG_INFO) |
| int i; for (i =0; i <NumPrgInfo; i++) { PRG_INFO PrgInfo; } | Table of program information |

800

FIG.14

800

| Field name | Contents |
|--------------------------------------------------------------------------|-----------------------------------------------------------------------------|
| const unsigned int(16) DataType | Type of PRG_INFO (Fixed value) |
| unsigned int(16) DataSize | Size of PRG_INFO |
| unsigned int(16) Attributes | Attribute information of a program |
| OBJ_ID PrgID | Program identification information |
| unsigned int(32) PlayBackDuration | Reproduction time of a program (ms) |
| unsigned int(16) TextID | Reference information to text information |
| unsigned int(16) ThumbID | Reference information to representative thumbnail image information |
| unsigned int(16) NumMoInfo | Number of object management information (MO_INFO) contained in this program |
| int i; for (i =0; i <NumMoInfo; i++) { unsigned int(32) MoID; } | Reference table to object management information |

810

FIG15

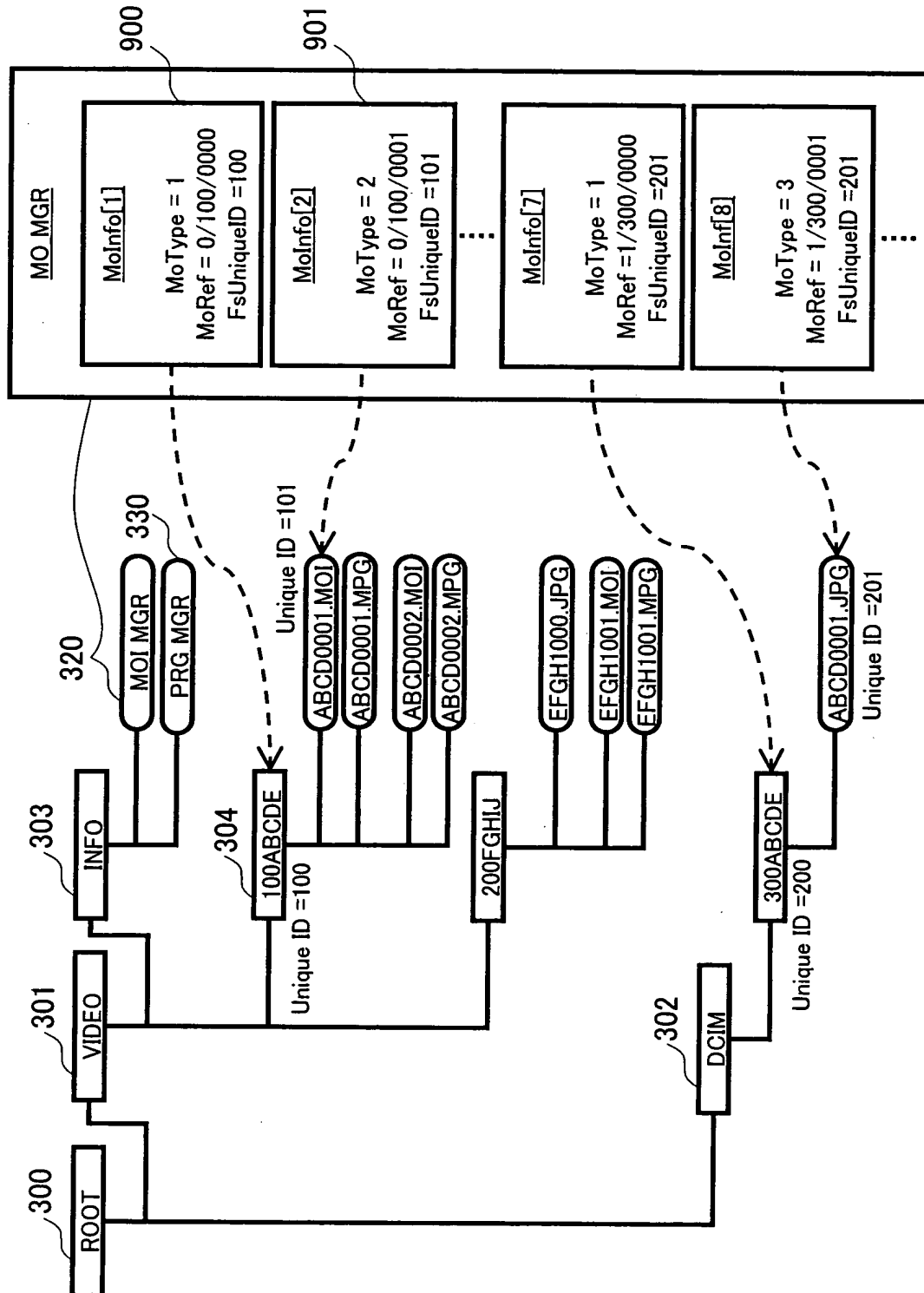


FIG.16

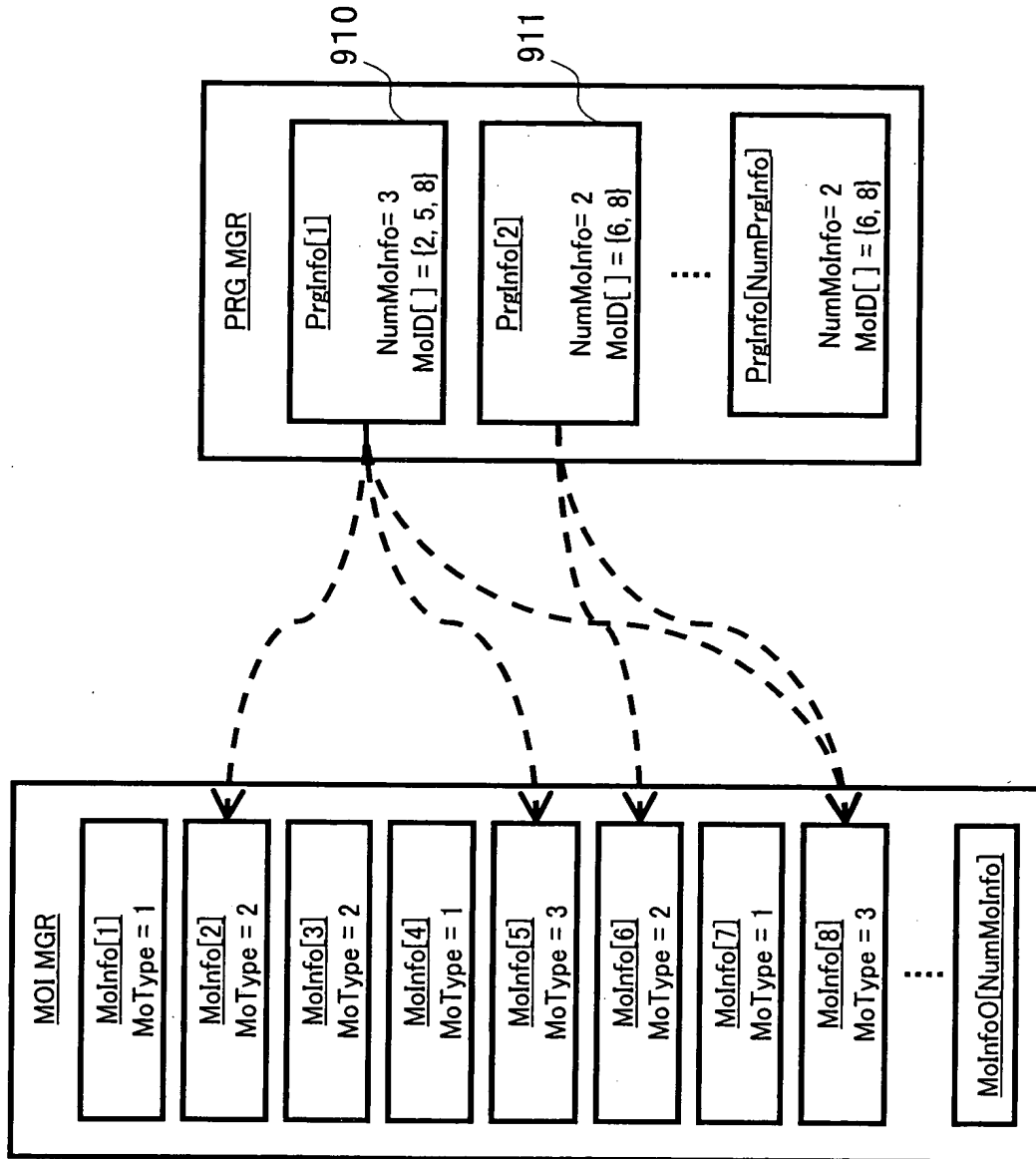


FIG.17

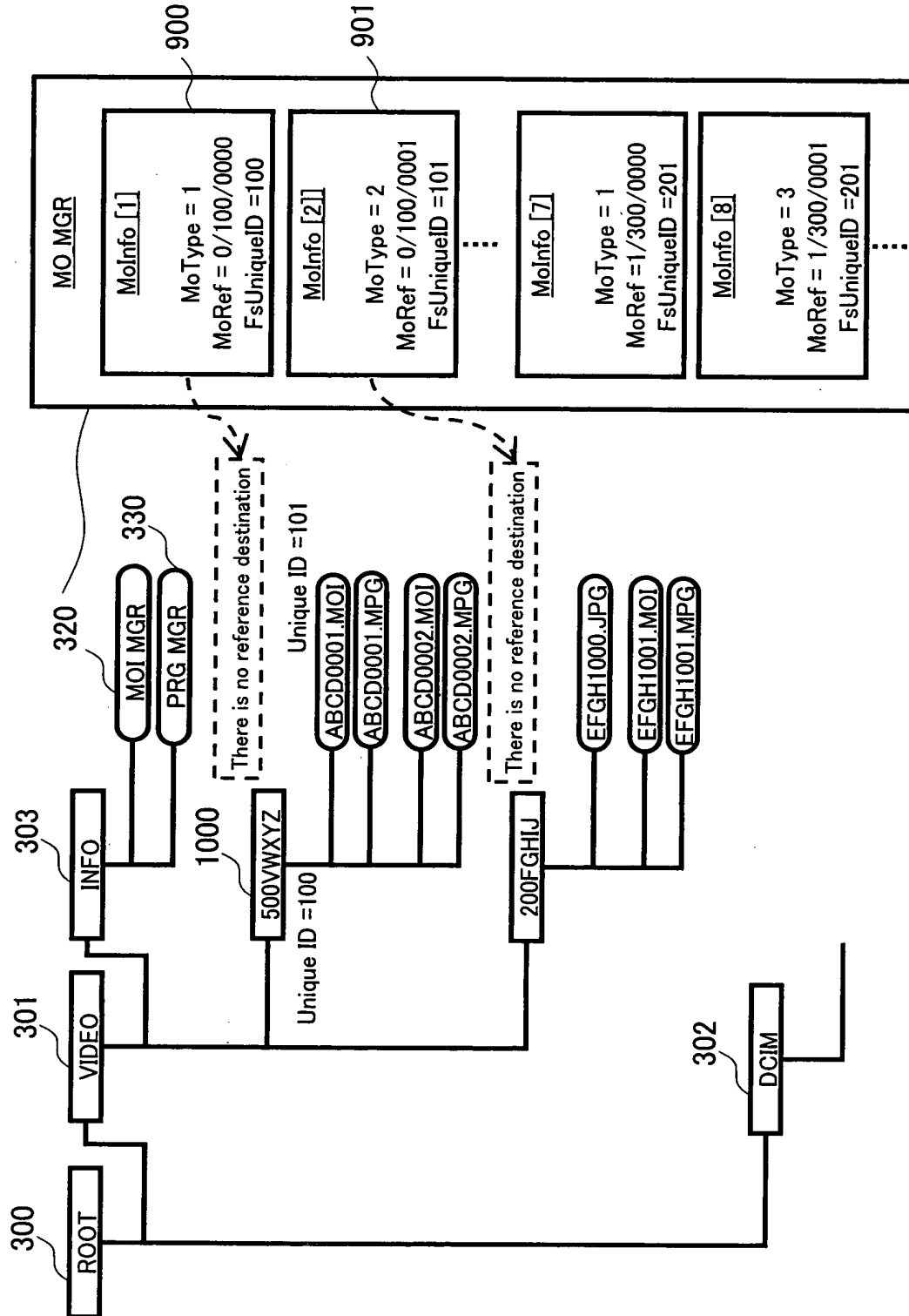


FIG.18

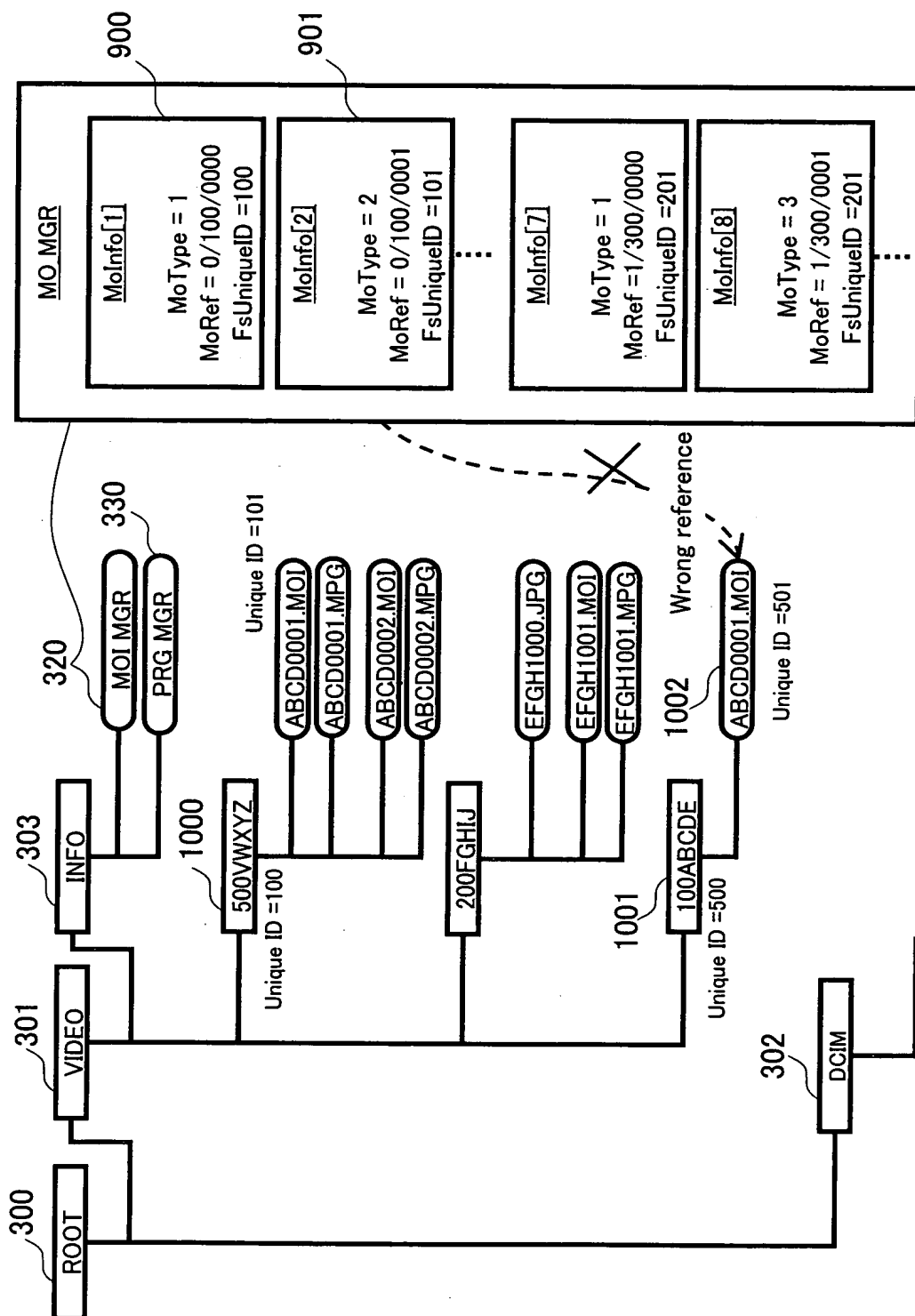


FIG.19

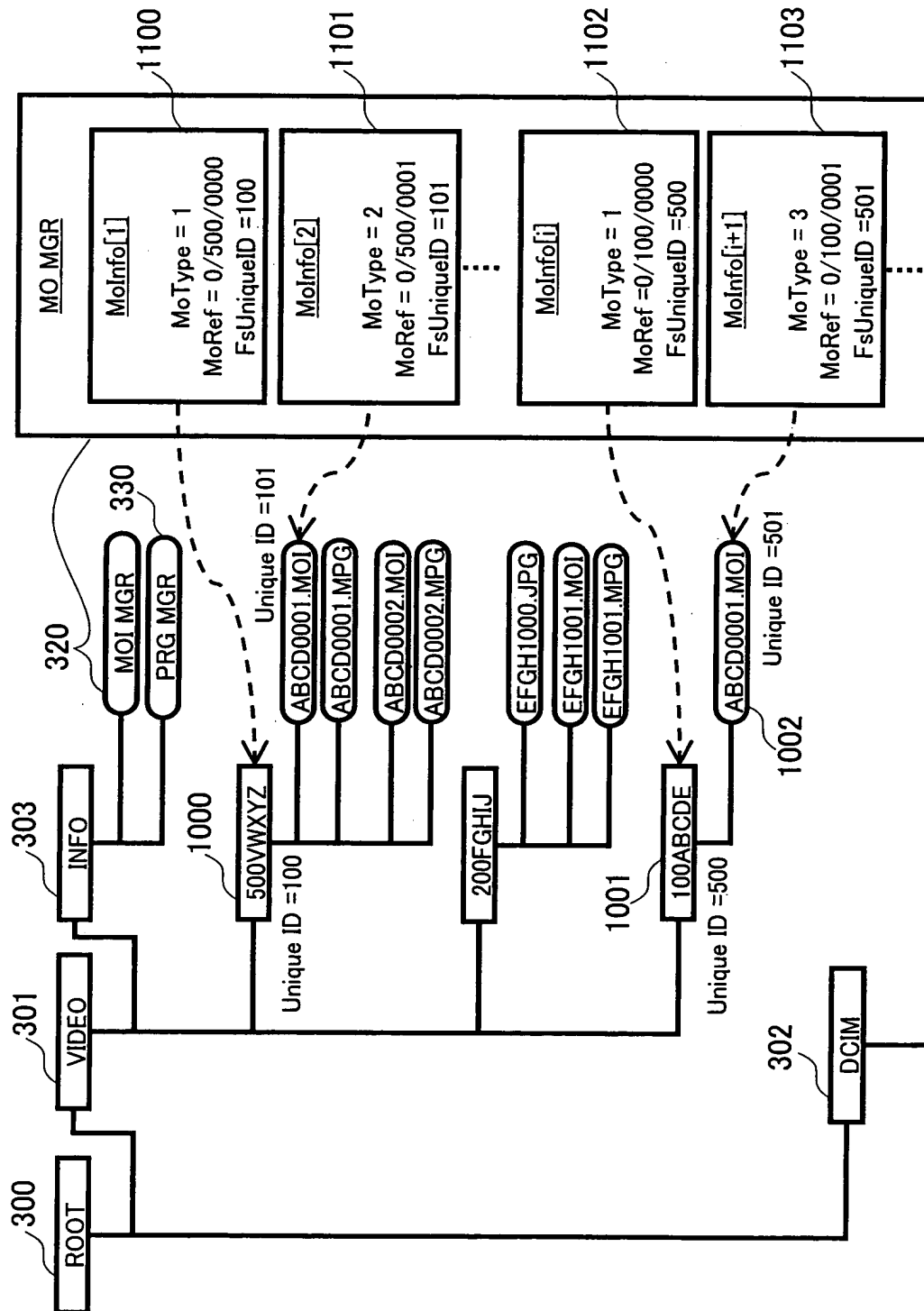


FIG.20

| | | |
|------|-----------------------------------|---------------------------------------------------------------------|
| 2000 | Field name | Contents |
| | unsigned int(16) MoType | Type of a media object |
| | OBJ_ID MoRef | Object reference information |
| | unsigned int(32) MoUniqueID | Unique ID assigned in a media object manager |
| | unsigned int(32) PlayBackDuration | Reproduction time of a media object (ms) |
| | unsigned int(16) Attributes | Attribute information of a media object |
| | unsigned int(16) TextID | Reference information to text information |
| | unsigned int(16) ThumbID | Reference information to representative thumbnail image information |

2001

FIG.21

FIG.22A

| BP | Length | Field name | Contents |
|----|--------|----------------------------------|-------------|
| 0 | 4 | Attribute Type | LB32 = 2048 |
| 4 | 1 | Attribute Subtype | UInt8 = 1 |
| 5 | 3 | Reserved | 00hy bytes |
| 8 | 4 | Attribute Length | LB32 |
| 12 | 4 | Implementation Use Length (IU_L) | LB32 |
| 16 | 32 | Implementation Identifier | EntityID |
| 48 | IU_L | Implementation Use | bytes |

2100

FIG.22B

| BP | Length | Field name | Contents |
|----|--------|------------------------|----------|
| 0 | 2 | Header Checksum | LB16 |
| 0 | 16 | Media Object Unique ID | LB32 |

2101

Logical Volume Integrity Descriptor (LVID)

| BP | Length | Field name | Contents |
|-----------|--------|---------------------------------------|-----------|
| 0 | 16 | Descriptor Tag | Tag |
| 16 | 12 | Recording Date | timestamp |
| ... | ... | ... | ... |
| 40 | 32 | Logical Volume Contents Use | bytes |
| ... | ... | ... | ... |
| 72 | 4 | Number of Partitions (= N_P) | LB32 |
| 76 | 4 | Length of Implementation Use (= L_IU) | LB32 |
| ... | ... | ... | ... |
| NP x 8+80 | L_IU | Implementation Use | bytes |

3000

3001

3002

FIG.23

FIG.24A

| BP | Length | Field name | Contents |
|----|--------|------------|-----------|
| 0 | 16 | Unique ID | LB64 |
| 8 | 24 | Reserved | 00h bytes |

3100

FIG.24B

| BP | Length | Field name | Contents |
|-----|--------|-----------------------|----------|
| 0 | 32 | Implementation ID | EntityID |
| 32 | 4 | Number of Files | LB32 |
| 36 | 4 | Number of Directories | LB32 |
| ... | ... | ... | ... |

3101

3102

| Field name | Contents |
|------------------------------------------------------------------|--------------------------------------------------------------------|
| const unsigned int(16) DataType | Type of MO_MGR (Fixed value) |
| unsigned int(16) DataSize | Size of MO_MGR |
| unsigned int(32) PlayBackDuration | Total reproduction time of all media objects (ms) |
| Timestamp FsRecordingDate | The same value as that of the Recording Date 3000 is stored |
| unsigned int(64) FsUniqueID | The same value as that of the Unique ID 3100 is stored. |
| unsigned int(16) FsNumFile | The same value as that of the Number of Files 3101 is stored |
| unsigned int(16) FsNumDir | The same value as that of the number of Directories 3102 is stored |
| unsigned int(16) NumMoInfo | Number of object management information (MO_INFO) |
| int i; for (i =0; i <NumMoInfo; i++) { MO_INFO MoInfo } | Table of object management information |

FIG.25

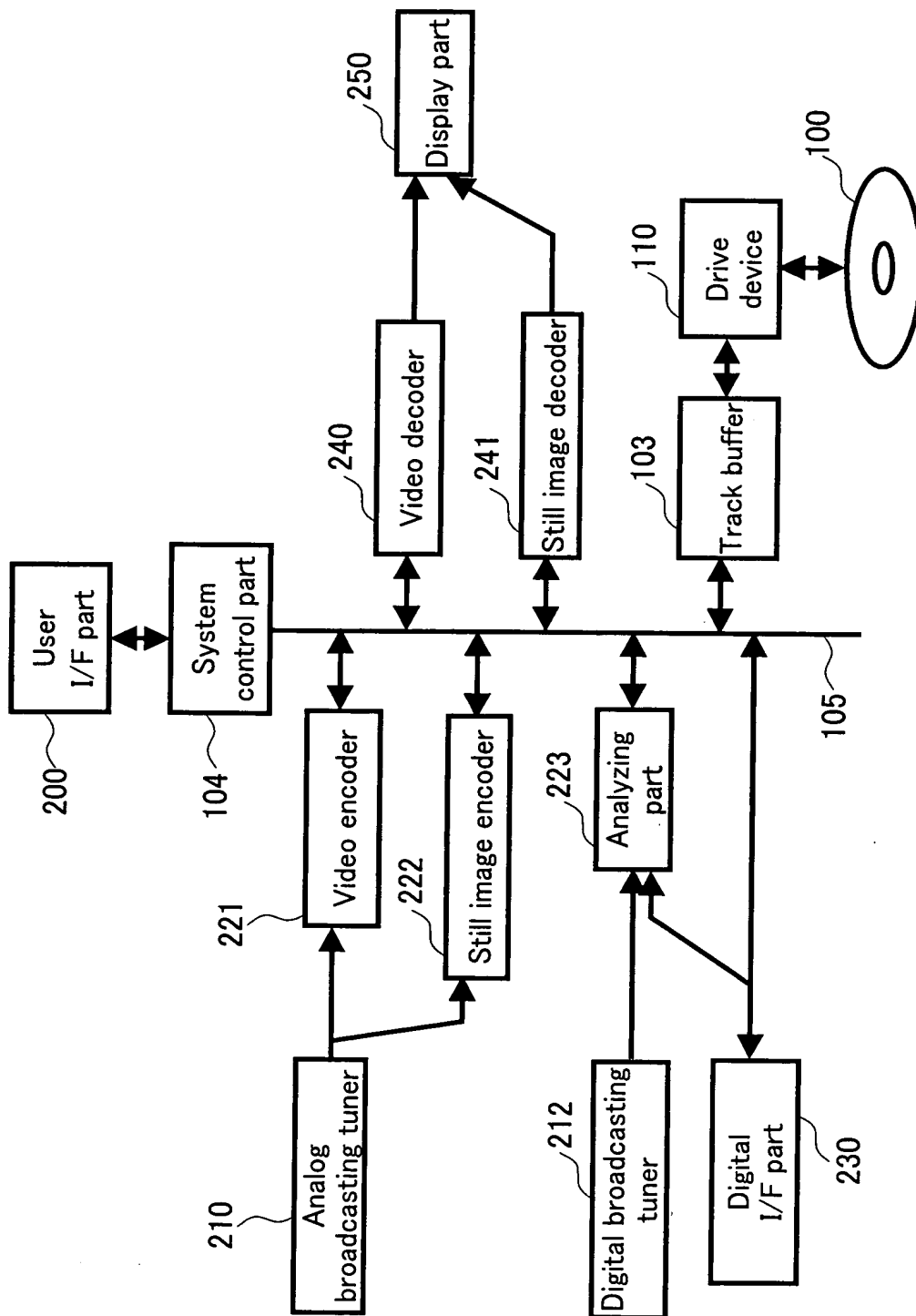


FIG.26

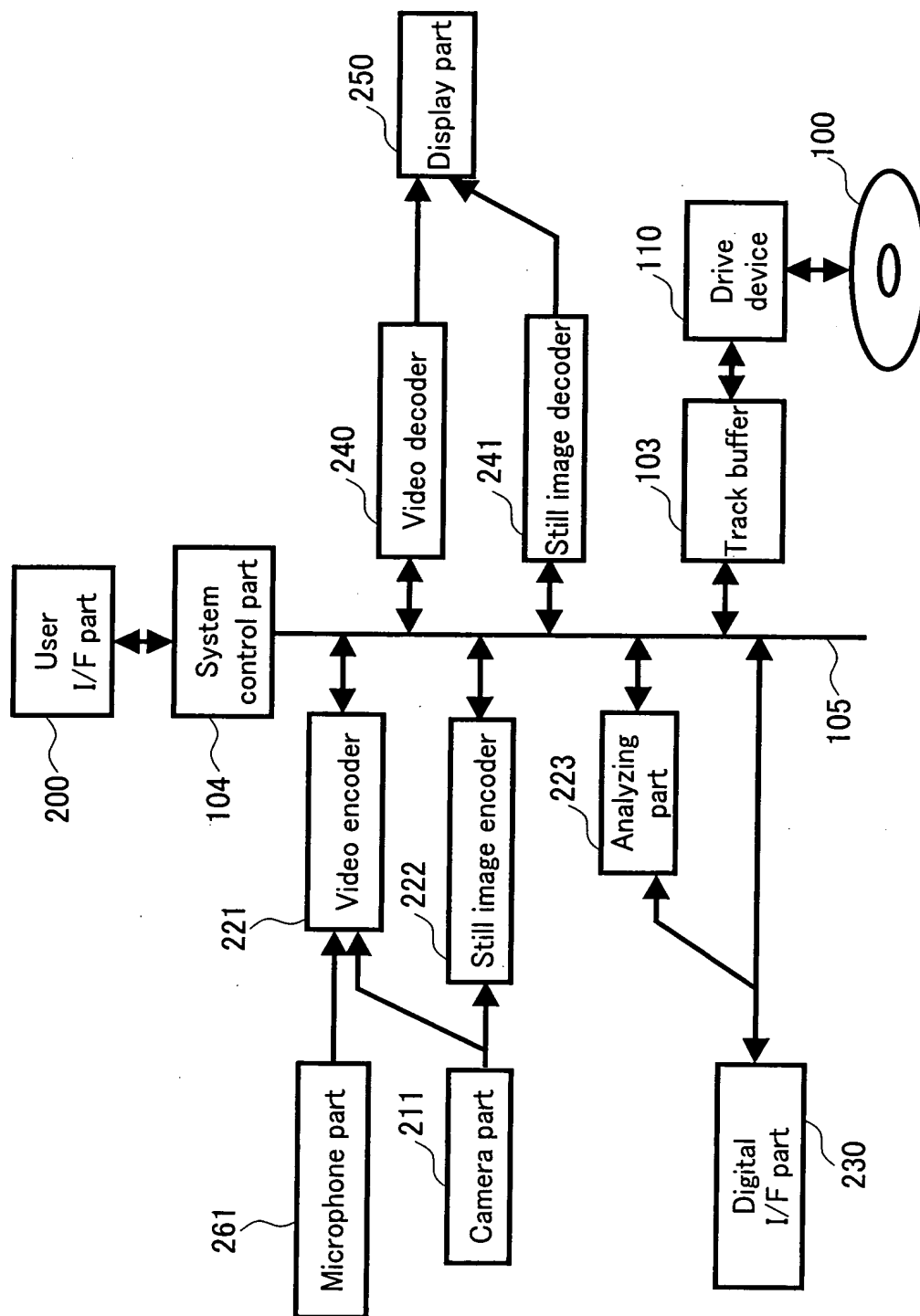


FIG.27

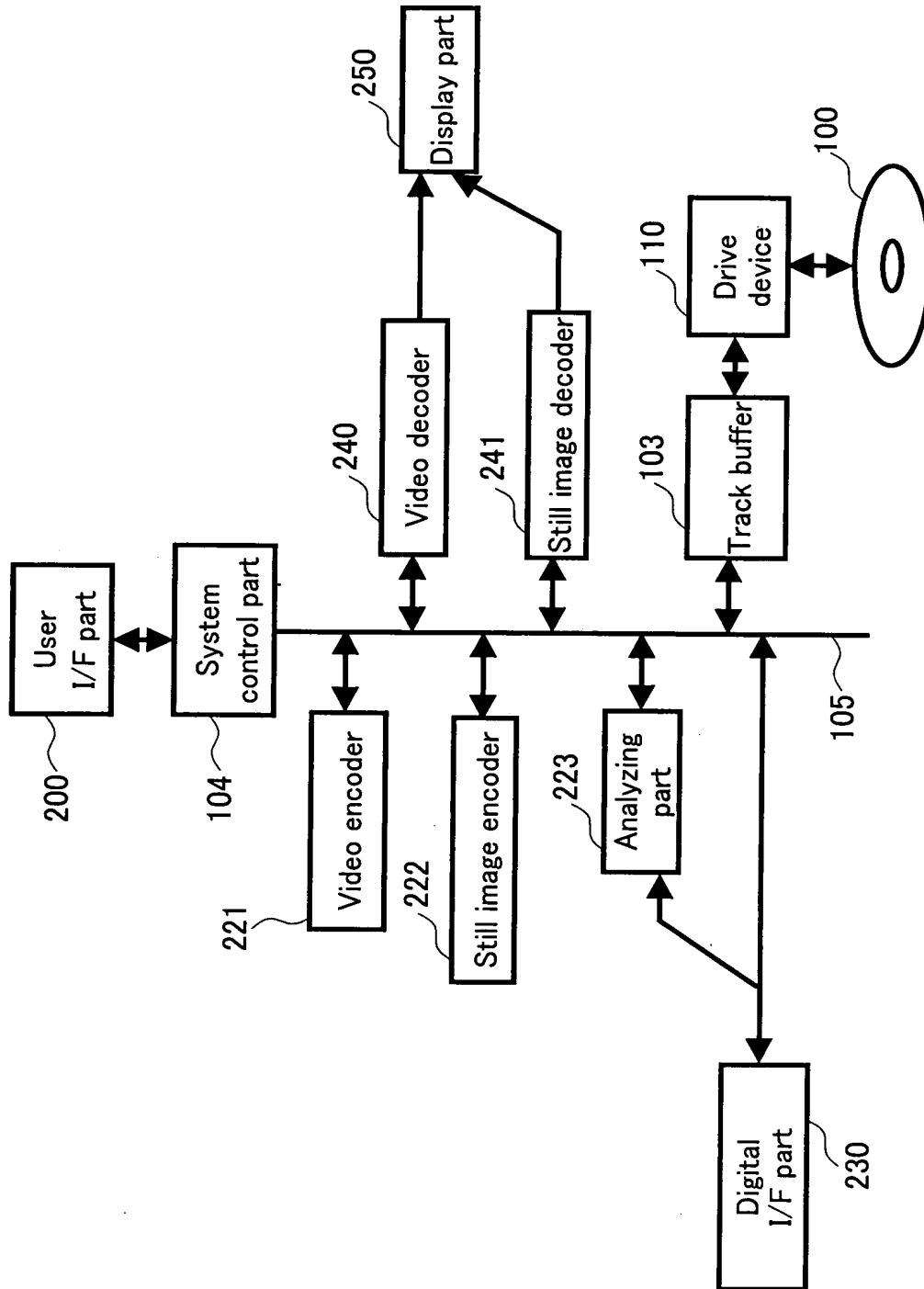


FIG.28

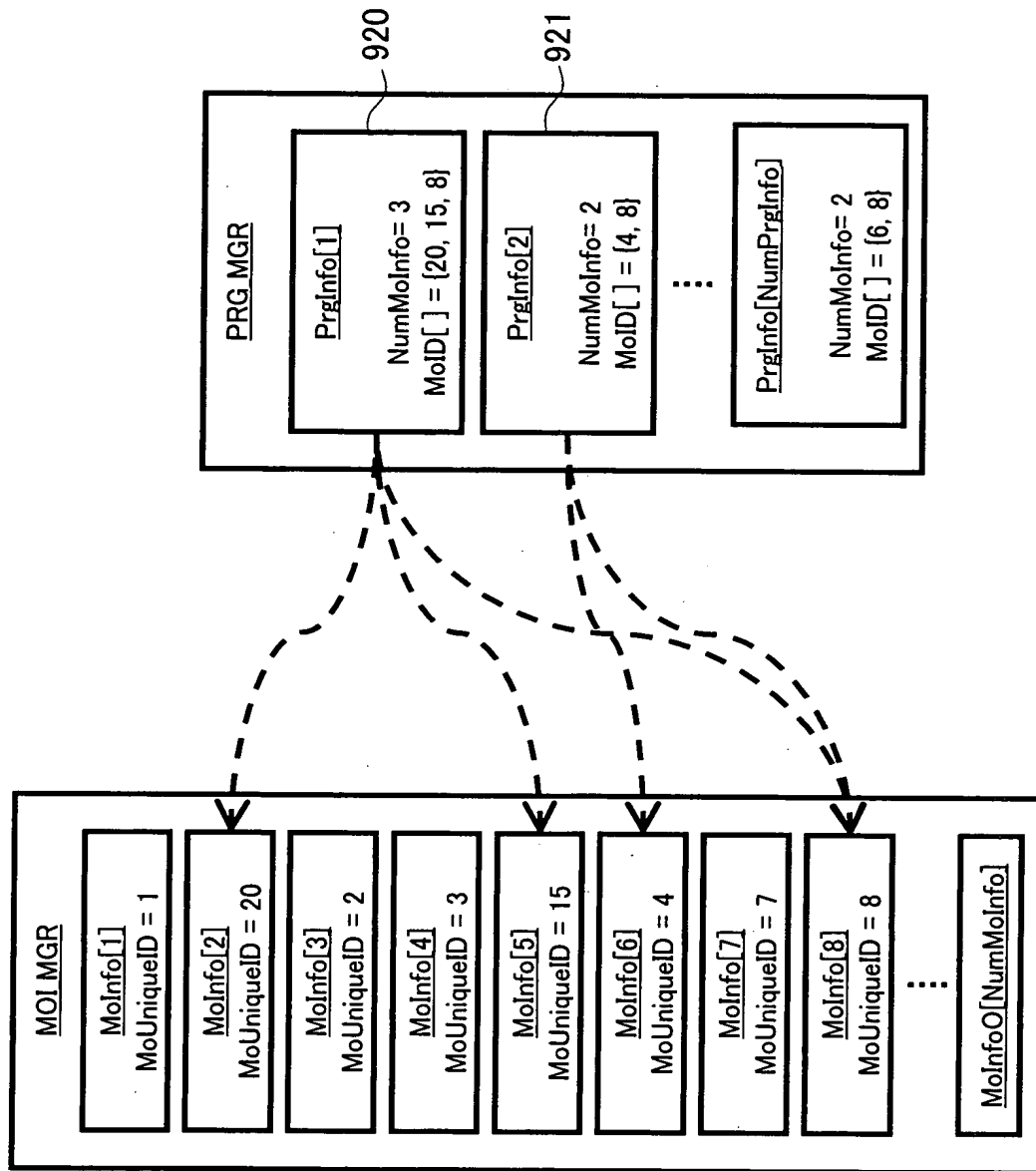


FIG.29

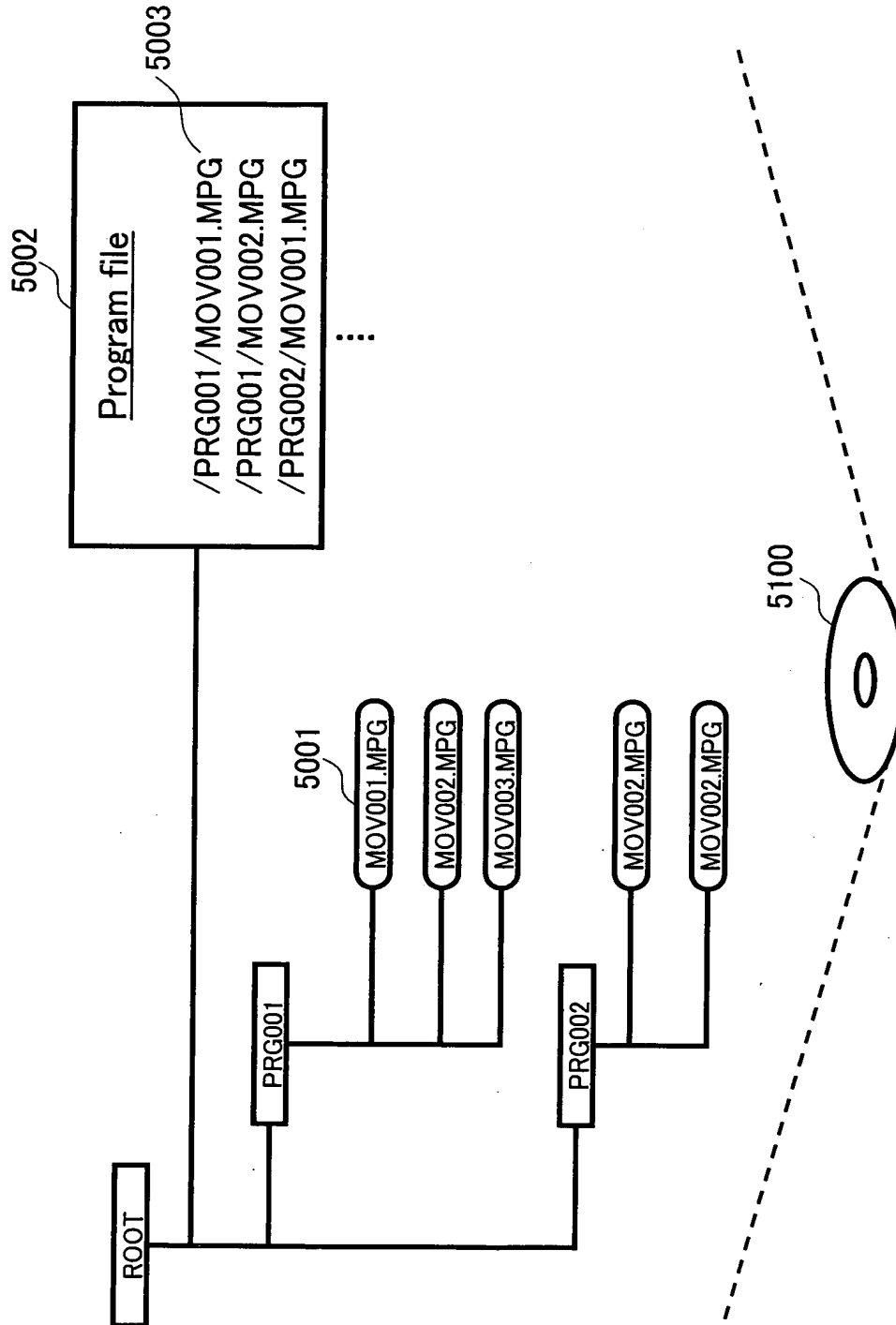


FIG.30

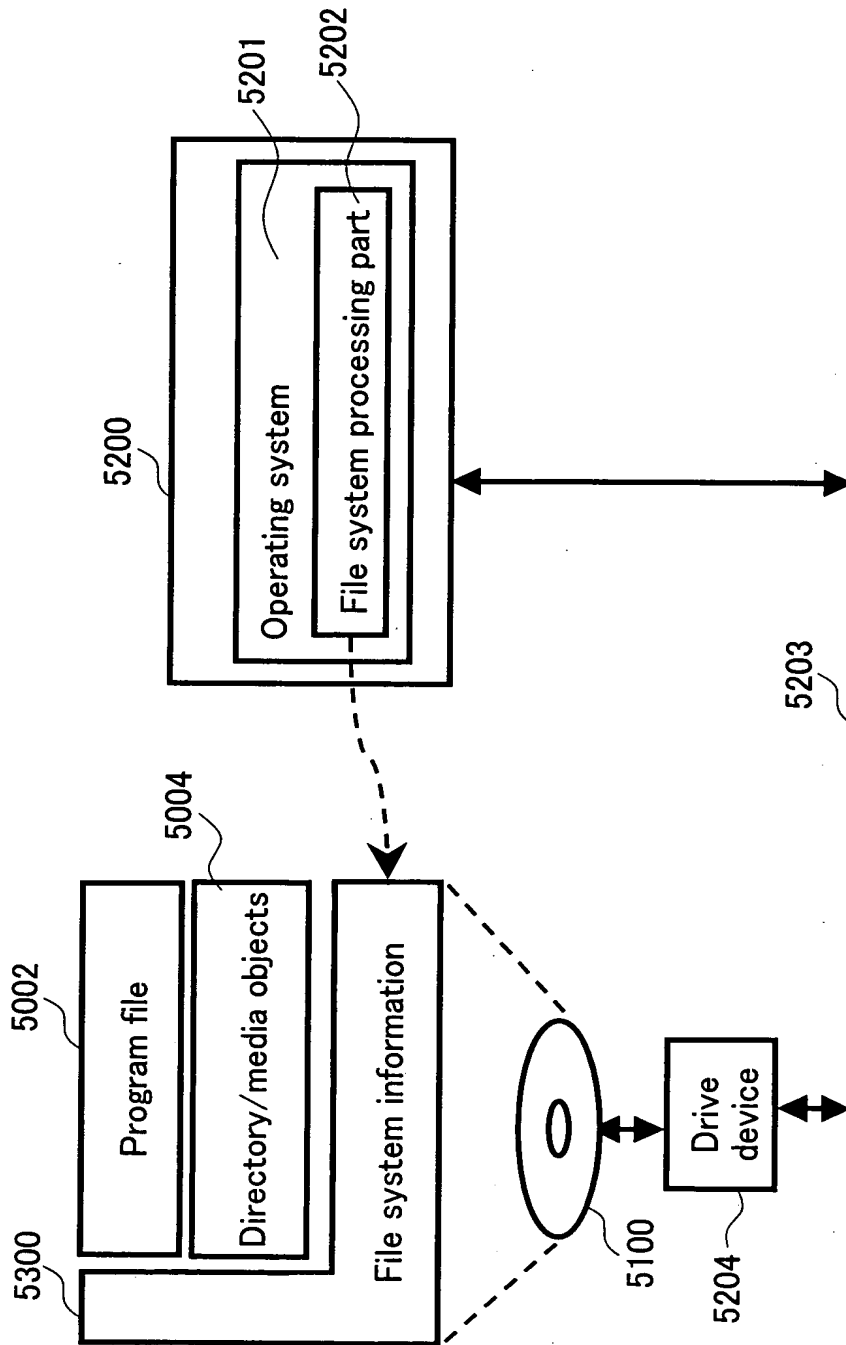


FIG.31